



Atty. Dkt. No. 056859-0196

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: H. SIVARAMAN et al.  
Title: PROCESS FOR PRODUCTION OF LARGE  
AMOUNT OF PENICILLIN V ACYLASE  
Appl. No.: 10/812,387  
Filing Date: 3/30/2004  
Examiner: Unassigned  
Art Unit: 1652

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

A copy of each non-patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

**TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

**RELEVANCE OF EACH DOCUMENT**

All of the documents are in English.

A copy of Document A6 is not available to applicants' representative at this time. As soon as this document becomes available, it will be forwarded to the US Patent and Trademark Office.

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Date March 16, 2005

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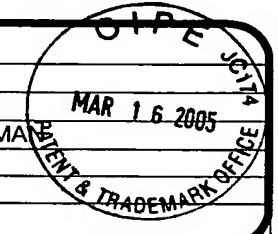
By 

*for*

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Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> Date Submitted: March 16, 2005 (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/812,387
				Filing Date	3/30/2004
				First Named Inventor	Hephzibah SIVARAMAN
				Group Art Unit	1652
				Examiner Name	Unassigned
				Attorney Docket Number	056859-0196
Sheet	1	of	1		



### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				

### NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	A1	BOMSTEIN et al., "Automated colorimetric determination of 6-aminopenicillanic acid in fermentation media," ANALYTICAL CHEMISTRY, Vol. 37, 1965, pp. 576-578.	
	A2	CLARIDGE et al., "Bacterial Penicillin Amidase," NATURE, Vol. 187, No. 4733, 1960, pp. 237-238.	
	A3	OLSSON et al., "Molecular Cloning of <i>Bacillus sphaericus</i> Penicillin V Amidase Gene and Its Expression in <i>Escherichia coli</i> and <i>Bacillus subtilis</i> ," NATURE, Vol. 49, No. 5, 1985, pp. 1084-1089.	
	A4	OLSSON et al., "Sequencing and heterologous expression of the gene encoding penicillin V amidase from <i>Bacillus sphaericus</i> ," GENE, Vol. 45, 1986, pp. 175-181.	
	A5	ROLINSON et al., "Formation of 6-Aminopenicillanic Acid from Penicillin by Enzymatic Hydrolysis," NATURE, Vol. 187, No. 4733, 1960, pp. 236-237.	
	A6	SAKAGUCHI et al., "A Preliminary Report on a New Enzyme Penicillin Amidase," J. AGR. CHEM. SOC. JAPAN, Vol. 23, 1950, p. 411.	
	A7	SAMBROOK et al., MOLECULAR CLONING: A Laboratory Manual, Vol. 1, 1988, pp. 1.82-1.84 and Table of Contents.	
	A8	SHEWALE et al., "Evaluation of determination of 6-aminopenicillanic acid by p-dimethyl aminobenzaldehyde," BIOTECHNOLOGY TECHNIQUES, Vol. 1, No. 1, 1987, pp. 69-72.	
	A9	SURESH et al., "Penicillin V acylase crystal structure reveals new Ntn-hydrolase family members," NATURE STRUCTURAL BIOLOGY, Vol. 6, No. 5, May 1999, pp. 414-416.	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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